

CLAIMS

1. Catalytic process for oxidation or reduction of organic and inorganic compounds comprising contacting the organic or inorganic compound under oxidation or reduction conditions with a supported catalyst consisting of nickel as the active catalytic component promoted with silver or gold, the silver or gold being present in an amount between 0.001% to 30% by weight calculated on the amount of nickel in the catalyst.
2. Process according to claim 1, wherein the catalytic process is dehydrogenation.
3. Process according to claim 1, wherein the catalytic process is SO₂ oxidation.
4. Process according to claim 1, wherein the catalytic process is NO reduction with CO.
5. Process according to claim 1, wherein the catalytic process is CO methanisation.
6. Process according to claim 1, wherein the catalytic process is hydrogenation.
7. Process according to claim 1, wherein the catalytic process is ethane hydrogenolysis.
8. Process according to claim 1, wherein the support is alumina, titania or magnesium aluminium spinel.

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NEW CLAIMS 1 AND 2

1. Catalytic process for the dehydrogenation of an organic compound comprising contacting the organic compound under dehydrogenation conditions with a supported catalyst consisting of nickel as the active catalytic component promoted with silver or gold, the silver or gold being present in an amount between 0.001% and 30% by weight calculated on the amount of nickel in the catalyst.
2. The process of claim 1, wherein the support is alumina, titania or a magnesium aluminium spinel.